

CHANNEL FUNCTION

ALPHA SPOT HPE 1500

NB: To prevent accidental breakage of the effects, which could collide with each other during transport, before switching the projector OFF check that all the projector Channels have been excluded (DMX level = 0%).

CHANNEL	CHANNEL MODE	
	STANDARD	VECTOR
1	CYAN	CYAN
2	MAGENTA	MAGENTA
3	YELLOW	YELLOW
4	C.T.O	C.T.O
5	COLOUR WHEEL	COLOUR WHEEL
6	MACRO COLOURS	MACRO COLOURS
7	STOP/STROBE	STOP/STROBE
8	DIMMER	DIMMER
9	DIMMER FINE	DIMMER FINE
10	IRIS	IRIS
11	ANIMATED STAR GOBO	ANIMATED STAR GOBO
12	STATIC GOBO CHANGE	STATIC GOBO CHANGE
13	ROTATING GOBO 1 CHANGE	ROTATING GOBO 1 CHANGE
14	GOBO 1 ROTATION	GOBO 1 ROTATION
15	GOBO 1 FINE	GOBO 1 FINE
16	ROTATING GOBO2 CHANGE	ROTATING GOBO2 CHANGE
17	GOBO2 ROTATION	GOBO2 ROTATION
18	GOBO2 FINE	GOBO2 FINE
19	ANIMATION DISK INSERTION	ANIMATION DISK INSERTION
20	ANIMATION DISK ROTATION	ANIMATION DISK ROTATION
21	ROTATING PRISM INSERTION	ROTATING PRISM INSERTION
22	PRISM ROTATION	PRISM ROTATION
23	FROST INSERTION	FROST INSERTION
24	FOCUS	FOCUS
25	FOCUS FINE	FOCUS FINE
26	ZOOM	ZOOM
27	AUTOFOCUS DISTANCE	AUTOFOCUS DISTANCE
28	AUTOFOCUS ADJUSTMENT	AUTOFOCUS ADJUSTMENT
29	MACRO EFFECTS	MACRO EFFECTS
30	PAN	PAN
31	PAN FINE	PAN FINE
32	TILT	TILT
33	TILT FINE	TILT FINE
34	FUNCTION	FUNCTION
35	RESET	RESET
36	LAMP ON/OFF (with Option "Lamp DMX" ON)	LAMP ON/OFF (with Option "Lamp DMX" ON)
37		PAN-TILT TIME
38		COLOUR TIME
39		BEAM TIME
40		GOBO TIME

26

• STOP / STROBE - channel 7



BIT	EFFECT
252 - 255	OPEN
239 - 251	RANDOM FAST STROBE
226 - 238	RANDOM MEDIUM STROBE
213 - 225	RANDOM SLOW STROBE
208 - 212	OPEN
207	FAST PULSATION
...	...
108	SLOW PULSATION
104 - 107	OPEN
103	FAST STROBE (12 flash/sec)
...	...
4	SLOW STROBE (1 flash/sec)
0 - 3	CLOSED

IMPORTANT: The lamp dim to half power 1 second after the channel stay at 0% level. The lamp goes back to full power when the channel level is put higher than 0%.

• DIMMER - channel 8



BIT	EFFECT
255	DIMMER OPEN
...	...
0	DIMMER CLOSED

The lamp is linearly dimmed from full power to half power electronically and mechanically from half power to off.

• DIMMER FINE - channel 9



BIT	EFFECT
255	
...	
0	

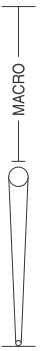
• IRIS - channel 10



BIT	EFFECT
252 - 255	MAXIMUM APERTURE
251	FAST PULSATION, FAST CLOSING
...	...
212	SLOW PULSATION, FAST CLOSING
211	FAST PULSATION, FAST OPENING
...	...
172	SLOW PULSATION, FAST OPENING
171	FAST PULSATION
...	...
132	SLOW PULSATION
128 - 131	MAXIMUM APERTURE
...	...
0	MINIMUM APERTURE

• ANIMATED STAR GOBO - channel 11

* With the "Animated star gobo" on this bit all "Macro effects" that include an Iris scene, use the "Animated Star gobo" instead of the "Iris"



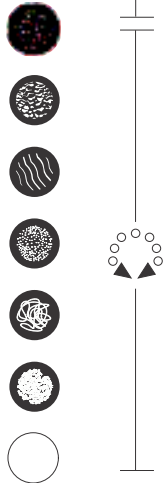
BIT	EFFECT
252 - 255	MAXIMUM APERTURE
251	FAST PULSATION, FAST CLOSING
...	...
212	SLOW PULSATION, FAST CLOSING
211	FAST PULSATION, FAST OPENING
...	...
172	SLOW PULSATION, FAST OPENING
171	FAST PULSATION
...	...
132	SLOW PULSATION
128 - 131	MAXIMUM APERTURE
...	...
1*	
0	MINIMUM APERTURE

• STATIC GOBO CHANGE - channel 12



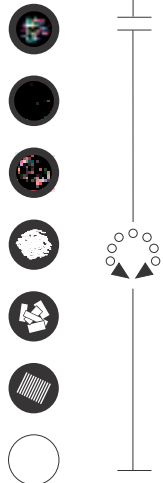
BIT	EFFECT
255	GOBO 8 SHAKE, FAST SPEED
...	...
244	GOBO 8 SHAKE, SLOW SPEED
243	GOBO 7 SHAKE, FAST SPEED
...	...
232	GOBO 7 SHAKE, SLOW SPEED
231	GOBO 6 SHAKE, FAST SPEED
...	...
220	GOBO 6 SHAKE, SLOW SPEED
219	GOBO 5 SHAKE, FAST SPEED
...	...
208	GOBO 5 SHAKE, SLOW SPEED
207	GOBO 4 SHAKE, FAST SPEED
...	...
196	GOBO 4 SHAKE, SLOW SPEED
195	GOBO 3 SHAKE, FAST SPEED
...	...
184	GOBO 3 SHAKE, SLOW SPEED
183	GOBO 2 SHAKE, FAST SPEED
...	...
172	GOBO 2 SHAKE, SLOW SPEED
171	GOBO 1 SHAKE, FAST SPEED
...	...
160	GOBO 1 SHAKE, SLOW SPEED
159	FAST ROTATION (100 rpm)
...	...
118	SLOW ROTATION (5 rpm)
114 - 117	STOP
113	SLOW ROTATION (5 rpm)
...	...
72	FAST ROTATION (100 rpm)
...	...
64 - 71	GOBO 8
...	...
56 - 63	GOBO 7
...	...
48 - 55	GOBO 6
...	...
40 - 47	GOBO 5
...	...
32 - 39	GOBO 4
...	...
24 - 31	GOBO 3
...	...
16 - 23	GOBO 2
...	...
8 - 15	GOBO 1
...	...
0 - 7	WHITE

• ROTATING GOBO 1 CHANGE - channel 13



BIT	EFFECT
255	GOBO 6 SHAKE, FAST SPEED
235	GOBO 6 SHAKE, SLOW SPEED
234	GOBO 5 SHAKE, FAST SPEED
214	GOBO 5 SHAKE, SLOW SPEED
213	GOBO 4 SHAKE, FAST SPEED
193	GOBO 4 SHAKE, SLOW SPEED
192	GOBO 3 SHAKE, FAST SPEED
172	GOBO 3 SHAKE, SLOW SPEED
171	GOBO 2 SHAKE, FAST SPEED
151	GOBO 2 SHAKE, SLOW SPEED
150	GOBO 1 SHAKE, FAST SPEED
130	GOBO 1 SHAKE, SLOW SPEED
112-129	GOBO 6
93-111	GOBO 5
75-92	GOBO 4
56-74	GOBO 3
38-55	GOBO 2
19-37	GOBO 1
0-18	WHITE

• ROTATING GOBO 2 CHANGE - channel 16



BIT	EFFECT
255	GOBO 6 SHAKE, FAST SPEED
235	GOBO 6 SHAKE, SLOW SPEED
234	GOBO 5 SHAKE, FAST SPEED
214	GOBO 5 SHAKE, SLOW SPEED
213	GOBO 4 SHAKE, FAST SPEED
193	GOBO 4 SHAKE, SLOW SPEED
192	GOBO 3 SHAKE, FAST SPEED
172	GOBO 3 SHAKE, SLOW SPEED
171	GOBO 2 SHAKE, FAST SPEED
151	GOBO 2 SHAKE, SLOW SPEED
150	GOBO 1 SHAKE, FAST SPEED
130	GOBO 1 SHAKE, SLOW SPEED
112-129	GOBO 6
93-111	GOBO 5
75-92	GOBO 4
56-74	GOBO 3
38-55	GOBO 2
19-37	GOBO 1
0-18	WHITE

• GOBO 1 ROTATION - channel 14



BIT	EFFECT
255	FAST ROTATION (150 rpm)
193	SLOW ROTATION (2,2 rph)
191 - 192	STOP
190	SLOW ROTATION (2,2 rph)
128	FAST ROTATION (150 rpm)
127	540° POSITION
105	450° POSITION
84	360° POSITION
63	270° POSITION
42	180° POSITION
21	90° POSITION
0	0° POSITION

• GOBO 2 ROTATION - channel 17



BIT	EFFECT
255	FAST ROTATION (150 rpm)
193	SLOW ROTATION (2,2 rph)
191 - 192	STOP
190	SLOW ROTATION (2,2 rph)
128	FAST ROTATION (150 rpm)
127	540° POSITION
105	450° POSITION
84	360° POSITION
63	270° POSITION
42	180° POSITION
21	90° POSITION
0	0° POSITION

• GOBO 1 FINE - channel 15



BIT
255
127
0

• GOBO 2 FINE - channel 18



BIT
255
127
0

• ANIMATION DISK INSERTION - channel 19

BIT	EFFECT
255	DISK INSERTED
0	DISK EXCLUDED

• ANIMATION DISK ROTATION - channel 20



BIT	EFFECT
255	FAST ROTATION (120 rpm)
131	SLOW ROTATION (4,4 rph)
125 - 130	STOP
124	SLOW ROTATION (4,4 rph)
0	FAST ROTATION (120 rpm)

• PRISM INSERTION - channel 21

BIT	EFFECT
255	PRISM INSERTED
128	
127	
0	PRISM EXCLUDED

• PRISM ROTATION - channel 22



BIT	EFFECT
255	FAST ROTATION (120 rpm)
193	SLOW ROTATION (3 rph)
191 - 192	STOP
190	SLOW ROTATION (3 rph)
128	FAST ROTATION (120 rpm)
127	POSITION 540°
105	POSITION 450°
84	POSITION 360°
63	POSITION 270°
42	POSITION 180°
21	POSITION 90°
0	POSITION 0°

• FROST - channel 23

BIT	EFFECT
255	FROST INSERTED
0	FROST EXCLUDED

• FOCUS - channel 24



BIT	EFFECT
255	NEAR
0	DISTANT

• FOCUS FINE -channel 25



BIT	EFFECT
255	NEAR
0	DISTANT

• ZOOM - channel: 26



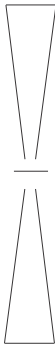
BIT	EFFECT
255	NARROW BEAM
0	WIDE BEAM

• AUTOFOCUS DISTANCE - channel 27

BIT	EFFECT
255	100 METRES
128	50 METRES
102	40 METRES
77	30 METRES
51	20 METRES
26	10 METRES
7	3 METRES
0-6	AUTOFOCUS OFF

AUTOFOCUS priority:
1) Rotating Gobo 2
2) Static Gobo
3) Rotating Gobo 1
4) Animated Star Gobo
5) Iris

• AUTOFOCUS ADJUSTMENT - channel 28



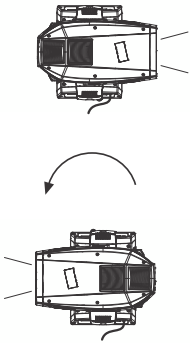
BIT	EFFECT
255	FOCUS FINE
128	
0	FOCUS FINE

• MACRO EFFECTS - channel 29

BIT	EFFECT
232-255	STAND BY BLACK
220-231	RANDOM MACRO 8
208-219	RANDOM MACRO 7
196-207	RANDOM MACRO 6
184-195	RANDOM MACRO 5
172-183	RANDOM MACRO 4
160-171	RANDOM MACRO 3
148-159	RANDOM MACRO 2
136-147	RANDOM MACRO 1
112-135	STAND BY BLACK
100-111	MACRO 8
88-99	MACRO 7
76-87	MACRO 6
64-75	MACRO 5
52-63	MACRO 4
40-51	MACRO 3
28-39	MACRO 2
16-27	MACRO 1
12-15	STAND BY BLACK
8-11	STAND BY
0-7	MACRO OFF

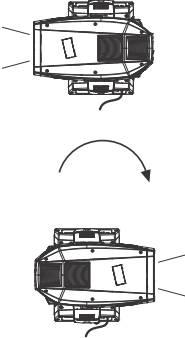
• PAN - channel 30

Operation with option InvertPan ⬅ Off
(Tilt conventionally represented at 14% and option Invert Tilt ⬅ Off)



BIT
255
0

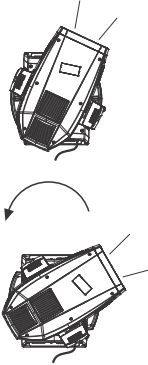
Operation with option InvertPan ⬅ On
(Tilt conventionally represented at 14% and option Invert Tilt ⬅ Off)



BIT
255
0

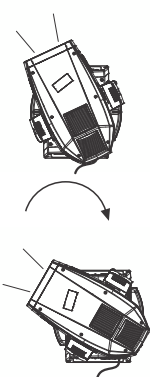
• PAN FINE - channel 31

Operation with option InvertPan ⬅ Off
(Tilt conventionally represented at 14% and option Invert Tilt ⬅ Off)



BIT
255
0

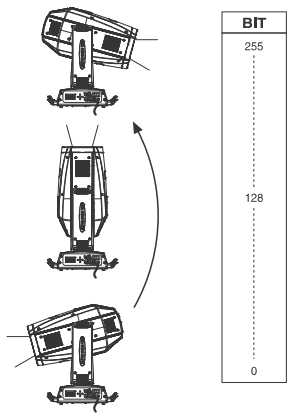
Operation with option InvertPan ⬅ On
(Tilt conventionally represented at 14% and option Invert Tilt ⬅ Off)



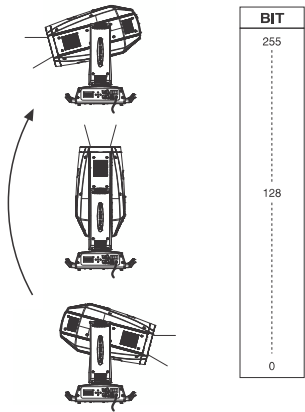
BIT
255
0

• TILT - channel 32

Operation with option Invert Tilt $\diamond$ Off
(Pan conventionally represented at 0% and option Invert Pan $\diamond$ Off)

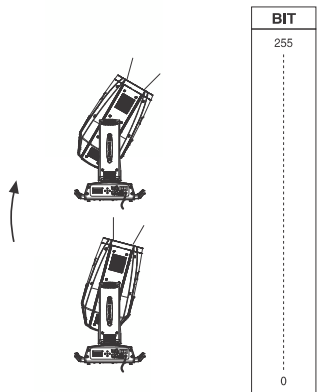


Operation with option Invert Tilt $\diamond$ On
(Pan conventionally represented at 0% and option Invert Pan $\diamond$ Off)

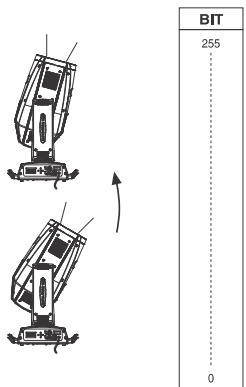


• TILT FINE - channel 33

Operation with option Invert Tilt $\diamond$ Off
(Pan conventionally represented at 0% and option Invert Pan $\diamond$ Off)



Operation with option Invert Tilt $\diamond$ On
(Pan conventionally represented at 0% and option Invert Pan $\diamond$ Off)



• FUNCTION - channel: 34

BIT	EFFECT
255	UNUSED RANGE
128	
51-62	
38-50	
25-37	DIMMER CURVE FUNCTION
12-24	
0	PAN-TILT FUNCTION
UNUSED RANGE	

The functions are activated passing through unused range and staying 5 seconds in necessary level.

• RESET - channel: 35

BIT	EFFECT
255	COMPLETE RESET
128	COMPLETE RESET PAN / TILT RESET
127	
77	PAN / TILT RESET
76	EFFECTS RESET
26	EFFECTS RESET
25	UNUSED RANGE
0	UNUSED RANGE

The functions are activated passing through unused range and staying 5 seconds in necessary level.

• LAMP CONTROL (only with option LAMP DMX On) - channel: 36

IMPORTANT: Alpha Spot HPE 1500 is not provided with hot restrike igniter

BIT	EFFECT
255	LAMP ON (1500 W)
180	Lamp ignition after 5 s in full power levels.
179	Immediate transition from half to full power.
101	LAMP ON (1500 W)
100	LAMP ON (1200 W)
26	LAMP ON (1200 W)
25	LAMP OFF
0	LAMP OFF
UNUSED RANGE	

The functions are activated passing through unused range and staying 5 seconds in necessary level.

TIMING CHANNELS

	Timing Channel	Channel function
37	Pan - Tilt time	Pan – Tilt – Pan Fine – Tilt Fine
38	Colour time	Cyan - Magenta - Yellow – C.T.O. – Color wheel
39	Beam time	Dimmer - Iris -Focus effects movment - Focus - Zoom - Frost – Rotating Prism change – Frost insertion
40	Gobo time	Gobo Fix - Rotating Gobo 1/2 change – Animation Disk insertion

TIME TABLE

BIT	Seconds	BIT	Seconds	BIT	Seconds	BIT	Seconds	BIT	Seconds	BIT	Seconds
0	Full	43	8.6	86	24	129	41	172	58	216	170
1	0.2	44	8.8	87		130		173		217	
2	0.4	45	9	88	25	131		174		218	
3	0.6	46	9.2	89		132	42	175	59	219	180
4	0.8	47	9.4	90		133		176		220	
5	1	48	9.6	91	26	134	43	177	60	221	190
6	1.2	49	9.8	92		135		178		222	
7	1.4	50	10	93	27	136	44	179	65	223	200
8	1.6	51	10.2	94		137		180		224	
9	1.8	52	10.4	95	28	138	45	181	70	225	
10	2	53	10.6	96		139		182		226	
11	2.2	54	11	97	29	140	46	183	75	227	210
12	2.4	55		98		141		184		228	
13	2.6	56	12	99	30	142	47	185	80	229	220
14	2.8	57		100		143		186		230	
15	3	58	13	101	31	144	48	187	85	231	230
16	3.2	59		102		145		188		232	
17	3.4	60	14	103	32	146	49	189	90	233	240
18	3.6	61		104		147		190		234	
19	3.8	62	15	105	33	148	50	191	95	235	250
20	4	63		106		149		192		236	
21	4.2	64	16	107	34	150	51	193	100	237	260
22	4.4	65		108		151		194		238	
23	4.6	66	17	109	35	152	52	195	110	239	270
24	4.8	67		110		153		196		240	
25	5	68	18	111	36	154	53	197	120	241	280
26	5.2	69		112		155		198		242	
27	5.4	70	19	113	37	156	54	199	130	243	290
28	5.6	71		114		157		200		244	
29	5.8	72	20	115	38	158	55	201	140	245	300
30	6	73		116		159		202		246	
31	6.2	74	21	117	39	160	56	203	150	247	310
32	6.4	75		118		161		204		248	
33	6.6	76	22	119	40	162	57	205	160	249	
34	6.8	77		120		163		206		250	
35	7	78	23	121		164		207		251	
36	7.2	79		122		165		208		252	
37	7.4	80		123		166		209		253	
38	7.6	81		124		167		210		254	
39	7.8	82		125		168		211			
40	8	83		126		169		212			
41	8.2	84		127		170		213			
42	8.4	85		128		171		214			
								215			